
5.2 Wireless
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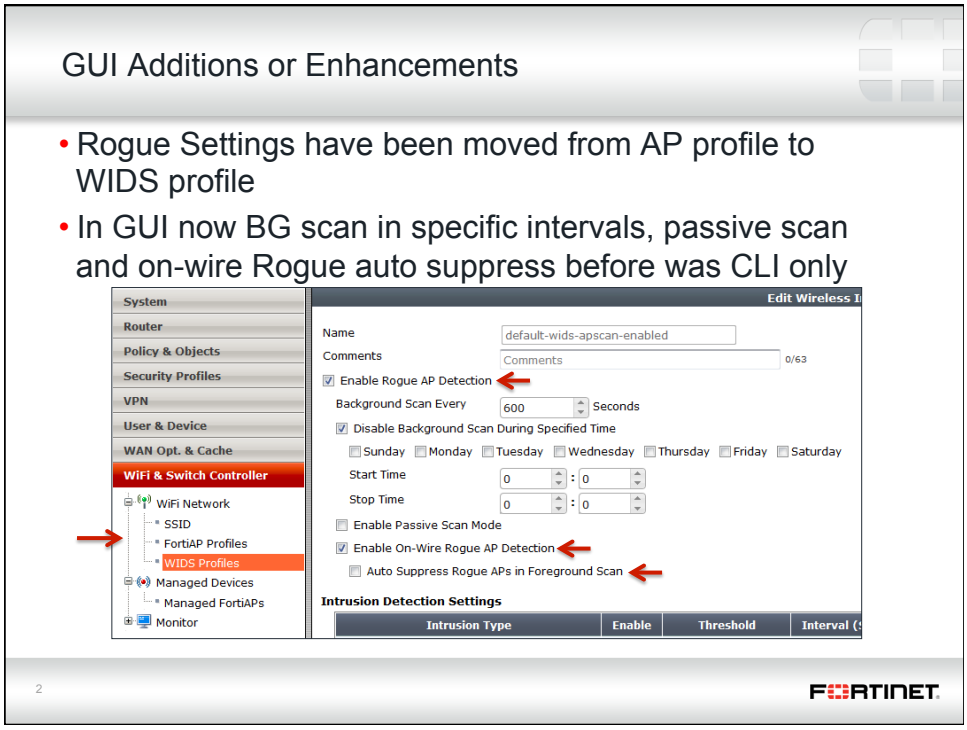
TRAINING SERVICES


GUI Additions or Enhancements
• Rogue Settings have been moved from AP profile to WIDS profile
• In GUI now BG scan in specific intervals, passive scan and on-wire Rogue auto suppress before was CLI only
System
Router
Policy & Objects
Security Profiles
VPN
User & Device
WAN Opt. & Cache
WiFi & Switch Controller
WiFi Network
SSID
FortiAP Profiles
WIDS Profiles
Managed Devices
Managed FortiAPs
Monitor
Edit Wireless I
Name
default-wids-apscan-enabled
Comments
Comments
0/63
Enable Rogue AP Detection
Background Scan Every
600
Seconds
Disable Background Scan During Specified Time
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Start Time
Stop Time
Enable Passive Scan Mode
Enable On-Wire Rogue AP Detection
Auto Suppress Rogue APs in Foreground Scan
Intrusion Detection Settings
Intrusion Type
Enable
Threshold
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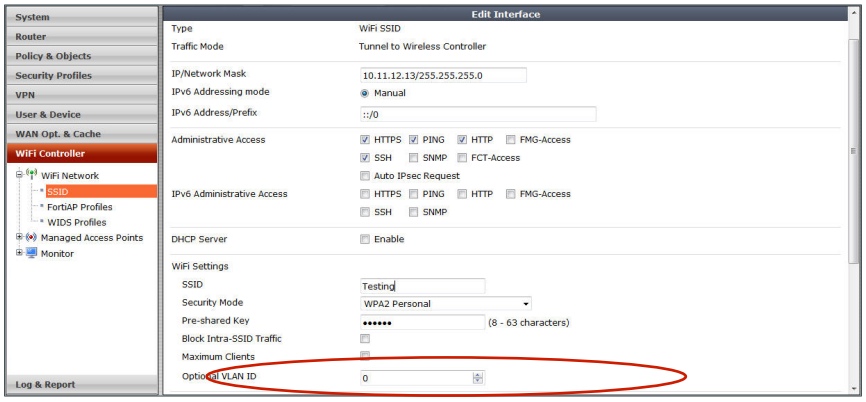
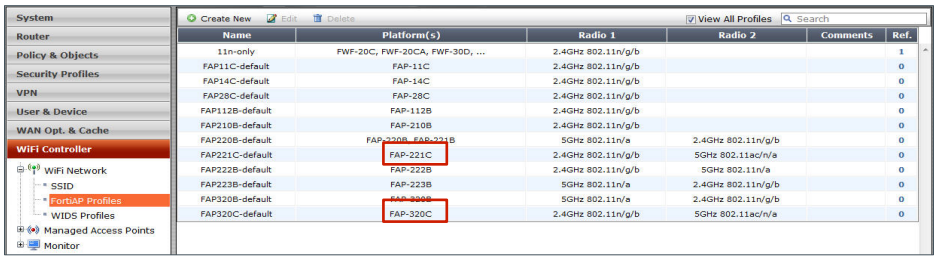
GUI additions or enhancements

- VLAN ID can be set in the GUI now for both a bridge and tunnel SSID

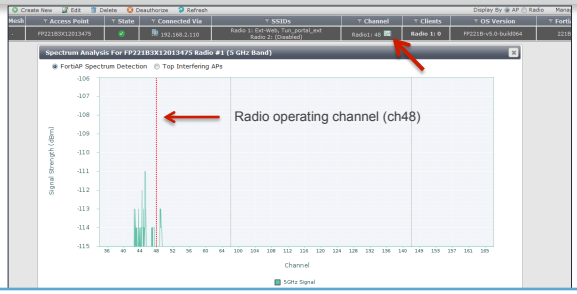


New features and enhancements

- Support for 802.11ac access points FAP-221C and FAP-320C



Spectrum Analysis in certain FAP models




```
FGT-100D-JV # diagnose wireless-controller wlac -c rf-sa FP221B3X12013475  1
------------------------------RF Spectrum Data    1--------------------------
rId: 1 Age: 2          Freq: 5220 Chan: 44  Sample Count 64     Interference Count: 0
  0 -115         1 -115         2 -115         3 -115         4 -115         5 -115         6 -115         7 -115
  8 -115         9 -113        10 -115        11 -115        12 -113        13 -114        14 -115        15 -114
 16 -115        17 -114        18 -115        19 -115        20 -114        21 -115        22 -115        23 -115
 24 -115        25 -113        26 -115        27 -115        28 -115        29 -114        30 -115        31 -114
 32 -115        33 -115        34 -115        35 -114        36 -115        37 -115        38 -115        39 -112
 40 -114        41 -114        42 -114        43 -115        44 -115        45 -113        46 -115        47 -114
 48 -114        49 -114        50 -115        51 -111        52 -111        53 -114        54 -113        55 -115
 56 -115        57 -115        58 -115        59 -115        60 -115        61 -115        62 -115        63 -115
------------------------------RF Spectrum Data    2--------------------------
rId: 1 Age: 0          Freq: 5240 Chan: 48  Sample Count 64     Interference Count: 0
  0 -115         1 -115         2 -115         3 -115         4 -115         5 -115         6 -115         7 -115
  8 -114         9 -114        10 -113        11 -113        12 -113        13 -112        14 -112        15 -113
 16 -112        17 -113        18 -113        19 -111        20 -111        21 -111        22 -112        23 -113
 24 -113        25 -113        26 -113        27 -114        28 -114        29 -113        30 -113        31 -113
 32 -113        33 -113        34 -113        35 -113        36 -112        37 -113        38 -113        39 -114
 40 -114        41 -114        42 -114        43 -113        44 -112        45 -112        46 -112        47 -112
 48 -111        49 -112        50 -112        51 -112        52 -112        53 -112        54 -113        55 -113
 56 -113        57 -114        58 -115        59 -115        60 -115        61 -115        62 -115        63 -115
------------------------------Total    2 RF Spectrum Datas--------------------------
```

Models with SA

- FAP-221B
- FAP-223B
- FAP-320B

Example using radio in Background Scan

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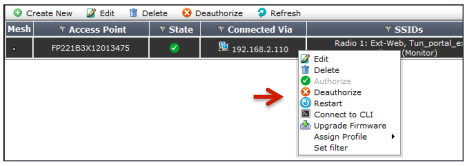
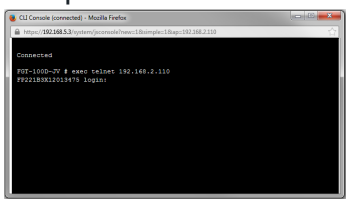
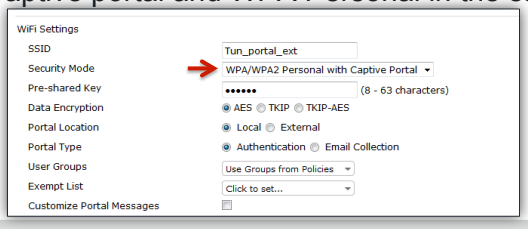
New features and enhancements

- Connect to FAP CLI interface via proxy in FGT. No need for a route to the FAP from managing computer.





- Mixing Captive portal and WPA Personal in the same SSID



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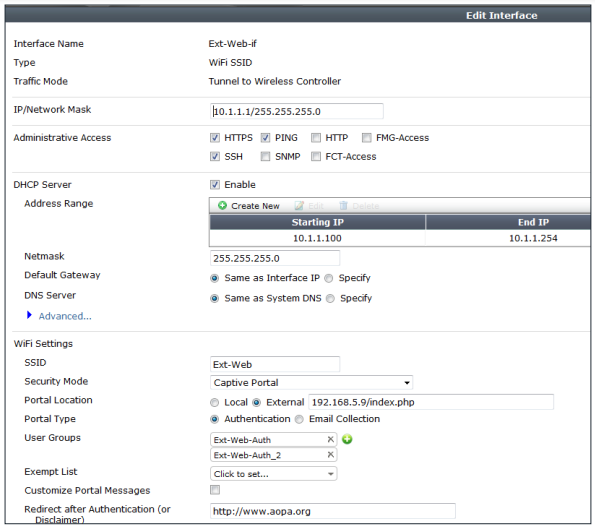
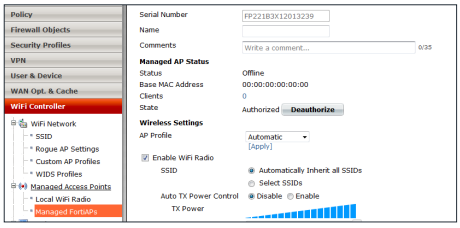
External Web Captive Portal and Authentication



Automatic AP configuration

- Automatic AP configuration disappears and it needs an AP profile now

5.0



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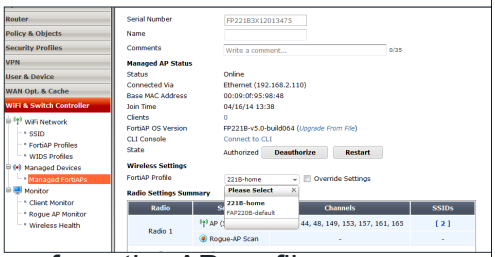
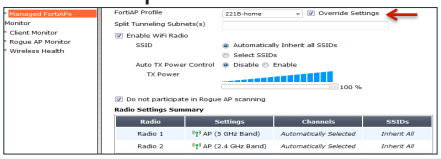
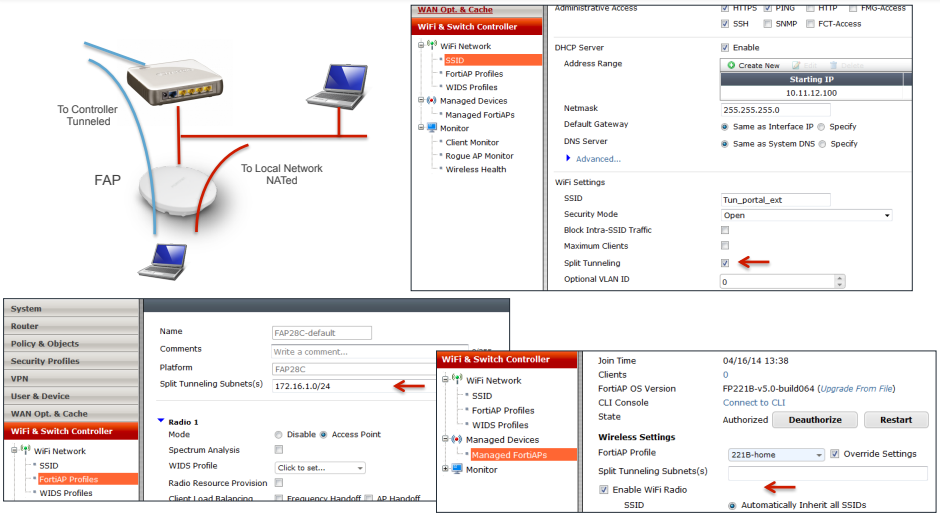


- Option to Override parameters from the AP profile



Split Tunnel in the remote FAPs



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Disable transmission rates

- Disable 802.11b, 802.11bg rates

```
FGT-100D-JV (FAP220B-default) # config radio-2

FGT-100D-JV (radio-2) # set band
802.11b         802.11b radio.
802.11g         802.11g radio.
802.11n         802.11n radio at 2.4G band.
802.11g-only    802.11g only radio.
802.11n-only    802.11n only radio at 2.4G band.
```


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Broadcast Suppression

- Broadcast traffic suppression

```
FGT-100D-JV (Ext-Web-if) # set broadcast-suppression
dhcp          Suppress broadcast uplink DHCP messages.
dhcp2         Suppress broadcast downlink DHCP messages.
arp           Suppress broadcast ARP for known wireless clients.
arp2          Suppress broadcast ARP for unknown wireless clients.
netbios-ns    Suppress NetBIOS name services packets with UDP port 137.
netbios-ds    Suppress NetBIOS datagram services packets with UDP port 138.
```


Compliance and Certification for some models

- FAP-222B and FAP320C
  - » DFS certification
    - Proper detection of Radar vs Wireless traffic
  - » WFA certification
    - Goes beyond the 802.11 standard in order to improve interoperability between vendor devices.


End
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